Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-30 (Canceled)

- least one detector, and two objectives (2), one of the objectives (2) being arranged on each of the two sides of the specimen plane (3) and the objectives (2) being directed toward one another and having a common focus; at least one beam splitter (5) for distributing the illuminating light (6) to the objectives (2), and a beam recombiner (5) for combining the detected light (7) coming from the objectives (2), being provided in the illumination/detection beam path (4); a modular assembly (8) for grouping the objectives (2) and the beam splitter/beam recombiner (5) therein and an interface (9) is provided with the modular assembly (8) for connection to the illumination/detection beam path (4) of the microscope (1). wherein the modular assembly has a baseplate on which optical components of the modular assembly are mounted, and wherein the optical components of the modular assembly are designed, and are installed and arranged on the baseplate, in such a way that temperature-related expansions compensate for one another and therefore have no effect on the optical alignment state of the modular assembly.
- 32. (Currently Amended) The confocal laser scanning microscope as defined in Claim 31, wherein the modular assembly (8) is connected with its interface (9) instead of a conventional objective or objective nosepiece to the microscope (1).

33. (Canceled)

34. (Currently Amended) The confocal laser scanning microscope as in Claim 33 31, wherein the optical components of the modular assembly (8) are arranged in a housing (12).

35. (Currently Amended) The confocal laser scanning microscope as defined in Claim 34, wherein the housing (12) is hermetically sealed.

Claims 36-39. (Canceled)

- 40. (Currently Amended) The confocal laser scanning microscope as defined in Claim 31, wherein the modular assembly (8) comprises a specimen stage (14) that is arranged between the objectives (2).
- 41. (Withdrawn-Currently Amended) The confocal laser scanning microscope as defined in Claim 31, wherein the modular assembly (8) comprises an optical system (21) for displacing the pupil of the objectives (2) used in the modular assembly (8).
- 42. (Withdrawn-Currently Amended) The confocal laser scanning microscope as defined in Claim 41, wherein the optical system (21) for displacing the pupil is implemented by way of a virtual image.
- 43. (Withdrawn-Currently Amended) The confocal laser scanning microscope as defined in Claim 41, wherein the optical system (21) for displacing the pupil is implemented by way of a real intermediate image.
- 44. (Withdrawn-Currently Amended) The confocal laser scanning microscope as defined in Claim 41, wherein displacement of the pupil is implemented by replacement of the tube lens of the microscope (1).

- 45. (Withdrawn-Currently Amended) The confocal laser scanning microscope as defined in Claim 41, wherein displacement of the pupil is implemented by way of an optical system (21) arranged in the illumination/detection beam path (4) close to the coupling-in point.
- 46. (Withdrawn-Currently Amended) The confocal laser scanning microscope as defined in Claim 31, wherein the modular assembly (8) comprises at least one mirror (16), arranged in the illumination/detection beam path (4), for deflecting the illumination/deflection beam (4).
- 47. (Withdrawn-Currently Amended) The confocal laser scanning microscope as defined in Claim 46, wherein a shutter (18) is arranged in the illumination/detection beam path (4) between the coupling-in point and the beam splitter (5), preferably between the coupling-in point and the mirror (16).
- 48. (Withdrawn-Currently Amended) The confocal laser scanning microscope as defined in Claim 47, wherein a mirror (16) is placed in front of each of the objectives (2) in order to deflect the illumination/detected light (4).
- 49. (Withdrawn-Currently Amended) The confocal laser scanning microscope as defined in Claim 48, wherein the modular assembly (8) comprises a shutter (18) in the illumination/detection beam path (4) between the beam splitter (5) and the mirror (16).
- 50. (Withdrawn-Currently Amended) The confocal laser scanning microscope as defined in Claim 47, wherein the modular assembly (8) comprises optical components in order to influence interference phenomena, in particular for phase compensation.

- 51. (Withdrawn-Currently Amended) The confocal laser scanning microscope as defined in Claim 50, wherein the modular assembly (8) comprises an interferometer which consists essentially of a Sagnac, Michelson, Twyman-Green, and Mach-Zehnder interferometer for creating an interferometric beam path.
- 52. (Withdrawn-Currently Amended) The confocal laser scanning microscope as defined in Claim 31, wherein the modular assembly (8) comprises optical components for implementing 4Pi, SWFM,I²M, I³M, or I⁵M microscope technology.
- 53. (Withdrawn-Currently Amended) The confocal laser scanning microscope as defined in Claim 31, wherein an actuator (15) is associated respectively with individual components for the positioning of individual components and/or for alignment of the assembly (8).
- 54. (Withdrawn-Currently Amended) The confocal laser scanning microscope as defined in Claim 31, wherein detectors are provided for the detection of various parameters of the operating state of the modular assembly (8).
- 55. (Withdrawn) The confocal laser scanning microscope as defined in Claim 54, wherein the detectors consist essentially of mechanical, electronic, and optical sensors.
- 56. (Withdrawn-Currently Amended) The confocal laser scanning microscope as defined in Claim 31, wherein at least one light source, with which an auxiliary beam can be generated for alignment of the components, is provided for the modular assembly (8).

- 57. (Withdrawn) The confocal laser scanning microscope as defined in Claim 56, wherein the auxiliary beam is generated as an interferometric beam, and alignment is accomplished automatically.
- 58. (Withdrawn-Currently Amended) The confocal laser scanning microscope as defined in Claim 56, wherein the light source is an integral constituent of the modular assembly (8).
- 59. (Withdrawn-Currently Amended) The confocal laser scanning microscope as defined in Claim 56, wherein the light source is an external light source and coupled into the modular assembly (8).
- 60. (Withdrawn-Currently Amended) The confocal laser scanning microscope as defined in Claim[[s]] 56, wherein the light source consists essentially of a solid-state laser, diode laser, and a gas laser.
- 61. (Withdrawn-Currently Amended) The confocal laser scanning microscope as defined in Claim 31, characterized by a fluorescent incident-light unit, a binocular tube, and an interface (9) to a confocal unit.
- 62. (Withdrawn) The confocal laser scanning microscope as defined in Claim 37, wherein the component is a diode laser.